PATENT COOPERATION THEATY

	From the INTERNATIONAL BUREAU
PCT	То:
NOTIFICATION OF ELECTION (PCT Rule 61.2)	Assistant Commissioner for Patents United States Patent and Trademark Office Box PCT Washington, D.C.20231 ETATS-UNIS D'AMERIQUE
Date of mailing (day/month/year) 23 May 2000 (23.05.00)	in its capacity as elected Office
International application No. PCT/EP99/08480	Applicant's or agent's file reference SCB509PCT
International filing date (day/month/year) 09 November 1999 (09.11.99)	Priority date (day/month/year) 11 November 1998 (11.11.98)
Applicant BARBUCCI, Rolando et al	
1. The designated Office is hereby notified of its election made X in the demand filed with the International Preliminary 08 May 2000 (0	Examining Authority on: 08.05.00) ational Bureau on:
The International Bureau of WIPO	Authorized officer

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PATENT COOPERATION TREAT

PCT

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicar	t's or agent's file reference		
SCB50	•	FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)
Internation	onal application No.	International filing date (day/mont	<u></u> -
PCT/E	P99/08480	09/11/1999	11/11/1998
Applicant AQUIS 1. This and 2. This	ITIO S.P.A. et.al. s international preliminary examples is transmitted to the applicant REPORT consists of a total of this report is also accompanional been amended and are the basis.	mination report has been prepared according to Article 36. of 5 sheets, including this cover sleet by ANNEXES, i.e. sheets of the	e description, claims and/or drawings which have
	se annexes consist of a total o		
1	⊠ Básis of the report	ating to the following items.	
	☐ Priority		
Ш	•	opinion with regard to novelty inve	entive step and industrial applicability
IV	☐ Lack of unity of invention	on	Thive step and industrial applicability
V	 Reasoned statement u citations and explanation 	nder Article 35(2) with regard to n ons suporting such statement	ovelty, inventive step or industrial applicability;
VI	☐ Certain documents cite		
VII	Certain defects in the in		
VIII	☑ Certain observations or	n the international application	
ate of sub	mission of the demand	Date of co	empletion of this report
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lame and i reliminary	mailing address of the international examining authority:	7 101120	officer State COVES INTOLITY
<u>)</u>))	European Patent Office - P.B. 58 NL-2280 HV Rijswijk - Pays Bas Tel. +31 70 340 - 2040 Tx: 31 65 Fax: +31 70 340 - 3016	Lensen,	
		I elephone	No. +31 70 340 2428

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/EP99/08480

I.	Bas	is (of t	the	re	po	rt
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1.	resp the	oonse to an invitation	wn on the basis of (substitute sheets which have been furnished to the receiving Office in under Article 14 are referred to in this report as "originally filed" and are not annexed to not contain amendments (Rules 70.16 and 70.17).):
	1-20) a	s originally filed
	Cla	ims, No.:	
	1-1	1 a	s originally filed
2.	With lang	n regard to the langu guage in which the int	age, all the elements marked above were available or furnished to this Authority in the ternational application was filed, unless otherwise indicated under this item.
	The	se elements were av	ailable or furnished to this Authority in the following language: , which is:
			anslation furnished for the purposes of the international search (under Rule 23.1(b)).
		• • •	lication of the international application (under Rule 48.3(b)).
		the language of a tra 55.2 and/or 55.3).	anslation furnished for the purposes of international preliminary examination (under Rule
3.	Witi inte	n regard to any nucle rnational preliminary	eotide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:
		contained in the inte	rnational application in written form.
		filed together with th	e international application in computer readable form.
		furnished subseque	ntly to this Authority in written form.
		furnished subseque	ntly to this Authority in computer readable form.
		The statement that the international app	the subsequently furnished written sequence listing does not go beyond the disclosure in plication as filed has been furnished.
		The statement that the listing has been furn	the information recorded in computer readable form is identical to the written sequence hished.
4.	The	e amendments have r	esulted in the cancellation of:
		the description,	pages:
		the claims,	Nos.:
		the drawings,	sheets:
5.			n established as if (some of) the amendments had not been made, since they have been syond the disclosure as filed (Rule 70.2(c)):

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/EP99/08480

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

6. Additional observations, if necessary:

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes:

Claims 1-10

No:

Claims 11

Inventive step (IS)

Yes:

Claims 1-10

No:

Claims 11

Industrial applicability (IA)

Yes:

Claims 1-11

No:

Claims

2. Citations and explanations see separate sheet

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made: see separate sheet

Re Item V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1). The document D4 (=EP-A-566118) was cited in the description but not in the international search report.

2). Art. 33 (2) PCT (Novelty):

D4 discloses a process for the preparation of water-swellable, water-insoluble modified polysaccharides comprising the steps of forming a mixture of a water-soluble modified polysaccharide, water and a crosslinking agent. The modified polysaccharide is recovered from said solution and heat-treated above 80 °C for a time sufficient to crosslink the modified polysaccharide. Modified polysaccharides suitable for use are cellulose, starch, chitin, carrageenan etc.

The preferred modified polysaccharide is a carboxyalkyl polysaccharide including carboxymethyl cellulose.

Suitable crosslinking agents are diamines or polyamines.

The crosslinking reaction occurs through amidation of the carboxyl group and over a broad pH range (see page 6, lines 2-8).

Samples 47-56 deal with these products.

The subject-matter of claim 11 is not novel in view of D4 and this is confirmed in the description of the present application on page 5, lines 6-9.

3). Art. 33(3) PCT (Inventive step):

D4 represents the closest prior art.

The subject-matter of claim 1 differs from D4 in that the process comprises a step of activating the carboxy groups in an anhydrous aprotic solvent.

The problem to be solved is to provide a further process with a high degree of reproducibility for preparing crosslinked carboxylated polysaccharides.

The solution involves an inventive step since the available prior art does not give any suggestion or hint that it could have been possible to make the cross-linking reaction almost quantitative.

The subject-matter of claims 1-10 appears to involve an inventive step.

Re Item VIII

Certain observations on the international application

Art. 6 PCT:

- 1). Claim 2 mentions polyacrylic acids as an example of a polysaccharide. However this is unclear since the ordinary chemist will never recognize polyacrylic acids as belonging to the group of the polysaccharides.
- 2). The description mentions on page 4, line 21 the hemisuccinylation of the free hydroxy groups. However this forms no part of the claims. This embodiment of the invention does not fall within the scope of the claims. This inconsistency between description and claims render said claims unclear.

INTERNATIONAL SEARCH REPORT

Inte. onal Application No PCT/EP 99/08480

Relevant to claim No. 1-7,11
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INTEL ATIONAL SEARCH REPORT

Information on patent family members

Inter anal Application No PCT/EP 99/08480

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INTERNALIONAL SEARCH REPORT

Inter: Anal Application No PCT/EP 99/08480

	PCT/EP 99	/08480
tion) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.
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